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**Title:** JP05234621A2: NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND ITS MANUFACTURE

**Derwent Title:** Non-aqueous electrolyte secondary battery has strip-shaped porous polypropylene separator between anode and cathode, inserted into battery jar [\[Derwent Record\]](#)

**Country:** JP Japan  
**Kind:** A (See also: JP03291750B2)

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**Published / Filed:** 1993-09-10 / 1992-02-25

**Application Number:** JP1992000037621

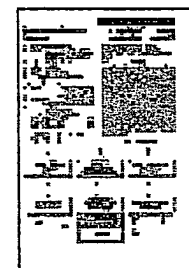
**IPC Code:** Advanced: H01M 4/02; H01M 4/04; H01M 4/58; H01M 10/40;  
Core: H01M 10/36; more...  
IPC-7: H01M 4/58; H01M 10/40;

**Priority Number:** 1992-02-25 JP1992000037621

**Abstract:** PURPOSE: To provide a nonaqueous electrolyte secondary battery of high capacity and safety.  
CONSTITUTION: Lithium compound oxide such as  $\text{LiMn}_2\text{O}_4$  or  $\text{LiCoO}_2$  is used as a positive pole active material and carbon materials on whose electrode lithium powder is stuck beforehand as a negative pole active material, in a nonaqueous electrolyte secondary battery. A strip porous polypropylene separator 3 which is wider than both pole plates intervenes between a positive plate 1 and a negative plate 2 and the whole body is wound up into a spiral shape. And polypropylene insulating plates 6, 7 are arranged on the top and the bottom of said electrode respectively to be inserted into a battery jar 9, a stage part is formed on the top of the battery jar 8, then electrolyte is filled therein, and a cylindrical battery is formed by being sealed by a sealing plate 9. Thus a charge/discharge capacity difference can be eliminated so as to provide a battery with high capacity and safety, by allowing a quantity of lithium equivalent to that of charge and discharge capacity difference to stick on the electrode as lithium powder.

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6706447	2004-03-16	Gao; Yuan	FMC Corporation, Lithium Division	Lithium metal dispersion in secondary battery anodes

Other Abstract  
Info:

CHEMABS 120(02)011814R CAN120(02)011814R DERABS C93-323685 DERC93-323685

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